Section 15

comprises of two parts:

- Glossary: Explanation of special terms and abbreviations
- Key Word Index:
 Alphabetic listing of machine specific terms with reference to the section where this term is explained in detail.

Section 15

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1. ADC - Glossary

μGy	Micro Gray - x-ray dose 1Gy= 0.87 x 10 -2 J/kg
A / D Converter	Analog Digital Converter
ADC	Agfa Diagnostic Center
Adjustloop	Service Program for mechanical adjustments of the CHM-module - step by step cycle of a 35x43cm IP + Cassette, to define the correct stepper motor steps - controlled by the Service PC
AOS	Adonis Operating System Operating system for Agfa CPU's (Gemini, Goliath, David)
APIP	Agfa Picture Archiving Protocol
AUI	Attachment Unit Interface (External "Box" to connect to a network)
BSP	Boot Support Package: boot program for Agfa CPU's
Calibration	Procedure on ADC to make a homogeneous exposure look like one on film. Algorithm to counter balance irregularities in the scanner of ADC.
CCM	Configuration and Customization Manager (Tool to edit the configuration file adc.cpf)
CHM	Cassette Handling Module
Collimation	Determination of the region in the image where the interesting data is at. On that region the image processing is applied
Controller	Is connected ahead the laser recorder. The controller is responsible for the image reception from the diagnostic equipment, the image processing, layout of the images on the film, and image transmission to the machine.
CPU	Central Processing Unit. - Microprocessor - board with microprocessor chip.
DAC	Digital Analog Converter
DAQ	Data Acquisition Board (ADC70)
Dark Current Compensation	Offset for Photomultiplier dark current before scanning the IP. Not used in ADC Digitizer!
Decomposition	The original image is being split up in a set of bandpass-filtered images
Diagnostic Logger	Tool on ADC to keep a lot of reduced images with the corresponding image data on the HD.
DICOM	Digital Imaging and COmmunication in Medicine
DIPS	Digital Image Processing Station
Dose, x-ray dose	= kV x mA x sec see also μGy = Micro Gray
Dosimeter	Device to measure x-ray dose
DRA	Direct Remote Access (external product name: AGFATEC LINK)
Dynamic Range	Exposure range in which ADC can get usable image data.
Ethernet	Frequently spread technologies for LANs (Local Area Networks)
FOI	Fibre Optic Interface. Digital interface for the transmission of image and control data via a light-leading fibre.
FSE	Field Service Engineer
. 5_	Field Col vice Engineer

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FTP	File Transfer Protocol. The Internet service that transfers files from one computer to another. (Program used for transmission of files in the Internet)
GUI	Graphical User Interface (V)DIPS
GSC	Global Support Center
Gemini	CPU of VME
Grid	to reduce scattered radiationto increase sharpness
Heel Effect	inhomogeneous exposure
HeNe Laser	Helium Neon Laser
HIS	Hospital Information System
Histogram	graphical display of the distribution of gray levels
HT power supply	High Tension power supply
HUB (in AGFA devices)	Switchbox (Hard- or Software) which switches or multiplexes different channels, e.g. AMDI and Service Channel.
HUB (Ethernet)	box to interconnect network hosts with Twisted Pair cable. Also called concentrator.
I/O BUS	Input / Output BUS. System consisting of a defined cable, cable connection, and signal for the parallel transmission of control data. The machine uses a bus system of 8 V level and 26 parallel lines.
ID Station	IDENTIFICATION Station
IMOS	IMAGE MO NITOR S OFTWARE> succession for SMA
Internet	The global computer network, composed of thousands of Wide Area Networks (WANs) and Local Area Networks (LANs), that uses TCP/IP to provide world-wide communication to homes, schools, businesses, and governments. The World Wide Web runs on the Internet.
IP	for ADC: Image Plate (phosphor plate)
IP	(Internet Protocol) Internet software that divides data into packets for transmission over the Internet. Computers must run IP to communicate across the Internet. See also TCP.
IP-Address	(Internet Protocol Address) The standard method which identifies an internet connected computer.
Java	A general-purpose programming language created by Sun Microsystems. Java can be used to create Java applets. A Java program is downloaded from the Web server and interpreted by a program running on the machine containing the Web browser.
Java applet	A short program written in Java that is attached to a World Wide Web page and executed by the browser machine.
JavaScript	A cross-platform, World Wide Web scripting language developed by Netscape Communications. JavaScript code is inserted directly into the HTML page.
LAN	Local Area Network. Network technology, designed to connect computers over short distances. It is possible to connect the LAN with the Internet or to make a configuration into an intranet.
Laser	Light Amplification by Stimulated Emission of Radiation: The helium neon laser emits red light of a wavelength of 633 nm. High voltage applied at the laser activates the electrons of the helium to provide a strong, coherent, monochromatic light beam.
Leeds Phantom	Image Plate to check the technical image quality of the ADC. The Leeds Phantom was developed for Agfa by the University of Leeds.

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RAM	Random Access Memory volatile main memory of computers
RAM - DISK	 virtual harddisk simulated in the CPU main memory Gemini RAM-Disk contains all the machine dependent parameters, e.g. stepper motor steps, info counters
REM Tool	Debugging tool for AOS logfiles
Reset	Machine reset into a defined machine status. Various checking routines are carried out during a reset.
RIS	Radiology Information System
RMS	Rotating Shutter Motor Driver Board
ROM	Read Only Memory
RS	Rotating Shutter - Stepper motor driven blade which interrupts the laser beam (Chopper) - switching the opto switch light barrier
RS232 interface	Serial interface which converts computer internal parallel information into serial bits, and vice versa.
SAB	Scan Acquisition Board
SAL	 Scan Average Level Digitized photo multiplier signal of an average of several hundred scanned lines Range SAL0 – SAL4095 (12bit)
SCB	Scan Control Board
SCP	SOFTCOPY Tool
SCSI	Small Computer Systems Interface – interface to connect peipherals to computers (e.g. HDD, CD-ROM)
Service interface	RS232 standard interfae for the connection of the Service PC.
Shell	User Interface of the VME - AOS
Speed Class (SC)	Dose=1mR + SC100 => D=1 above fog + base A film-screen-system with speed class 100 which is exposed with a dose of 1mR results in a density 1 above fog+base.
Square Root Compression	Signal $\sim \sqrt{N}$. Method to quantisize Signal in 12 similar block sizes
TCP	Transmission Control Protocol. Internet networking software that controls the transmission of packets of data over the Internet. Among its tasks, TCP checks for lost packets, puts the data from multiple packets into the correct order, and requests that missing or damaged packets be resent. Computers must run TCP to communicate with World Wide Web servers.
TCP/IP	Transport Control Protocol / Internet Protocol. Common Protocol for Networks. Used in the Internet
Testsheet	Image plate with testpattern, print to check the geometric qualtity of ADC:
Text Field	Part of the film displaying patient, hospital and image processing information

UI	User Interface (PRID, (V)DIPS)
UPS	Uninterruptable Power Supply
UTP - cable	U nshielded T wisted P air (Network transfer medium) cable. Cable to connect to a computer network.
VGA - Board / Monitor	Video Graphics Adapter
VIPS	Viewing and Image Processing Station
VME bus	Versa Module Europe bus Bus system from Motorola (used in ADC Digitizers) Bus for the parallel image data transmission. 16 bit bus.
W/L	Window and Leveling of digital images.
WS	Work Station, based on UNIX
X-Rite densitometer	Automatic density measuring instrument manufactured by X-Rite.